

Workshop Scientific Computing in the Behavioral Sciences (SCBS 2015)

Heidelberg University, Germany, July 27-29, 2015

Monday, July 27

- 09.30 – 09.45 Registration
- 09.45 – 10.00 Welcome
- 10.00 – 11.00 **Invited Talk**, Björn Meder, MPIB, Berlin
Optimal Experimental Design, Heuristics, and Human Information Search
- 11.00 – 11.30 Coffee Break
- 11.30 – 12.00 Ulf Mertens, Institute of Psychology, Heidelberg University
Conducting smart experiments using Adaptive Design Optimization
- 12.00 – 12.30 Nadia Said, Institute of Psychology, Heidelberg University
Challenges of Transforming Computational Cognitive Models into a Numerically Tractable Formulation
- 12.30 – 13.00 Stefan Körkel, IWR, Heidelberg University
Mathematical Methods for Modeling, Simulation, Model Validation and Process Optimization
- 13.00 – 14.30 Lunch Break
- 14.30 – 15.30 **Invited Talk** Magda Osman, Queen Mary College, University of London
Past, Current and Possible Future Types of Formal Descriptions of Dynamic Decision-making Processes
- 15.30 – 16.00 Coffee Break
- 16.00 – 16.30 Momme von Sydow, Institute of Psychology, Heidelberg University
How causal coherence biases induction
- 16.30 – 17.00 Vineet Kumar, BioQuant, Heidelberg University
Modelling and data analysis in animal models of addiction

Tuesday, July 28

- 09.00 – 10.00 **Invited Talk** Dietrich Dörner, Institute of Psychology, Bamberg University
Was? Wann? Wie? Ein Modell der Absichtsregulation
- 10.00 – 10.30 Coffee Break
- 10.30 – 11.00 Mona Diegelmann, Institute of Psychology, Heidelberg University
"Long-Term Care in Motion" - Assessing the Effect of a Physical Activity Intervention in a Nursing Home Ecology
- 11.00 – 11.30 Johannes Herold, IWR, Heidelberg University
Modeling Athletic Performance
- 11.30 – 12.10 Kai-Friederike Oelbermann, MathOpt, Magdeburg University
Semi-algebraic geometry of Poisson regression
- 12.10 – 14.00 Lunch Break
- 14.00 – 15.30 **Tutorial, Part 1**, Joscha Bach, MIT, Media Lab, USA
Integrating Motivational Models into Artificial Intelligence Architectures
- 15.30 – 16:00 Coffee Break
- 16.00 – 17.00 **Tutorial, Part 2**, Joscha Bach, MIT, Media Lab, USA
Integrating Motivational Models into Artificial Intelligence Architectures
- 19.00 Conference BBQ, Hauptstrasse 47, court

Wednesday, July 29

- 09.00 – 09.30 Swaminathan Ramakrishnan, Indian Institute of Technology, Madras
tba.
- 09.30 – 10.00 Alexander Schubert, ORB/IWR, Heidelberg University
The role of motion dynamics in action painting
- 10.00 – 10.30 Rahul Nair, HCI, Heidelberg University
Methods and Challenges in Computational Vision - An Incomplete Guide
- 10.30 – 11.00 Coffee Break
- 11.00 – 12.30 **Round Table Discussion**
- 12.30 – 12.45 Closing

Internet Access

Access information will be announced at the workshop

Lunch Venue

Marstall Mensa, Marstallhof 3

Raja Rani, Mittelbadgasse 5

Falafel, Heugasse 1

Sahara, Hauptstr.167

Thai Gourmet, Darmstädter Hof Centrum, Fahrtgasse 18

Rich n Greens , Carré, Poststrasse

Shanghai- China Restaurant, Carré, Poststrasse

Tiger & Dragon's food corner, Carré, Poststrasse

Arbil Restaurant, Rohrbacher Strasse 2

Pasta Bar, Neugasse 21

